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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,210	06/01/2006	Kenichiro Ota	062485	3740
58834 7590 09/09/2008 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			EXAMINER	
			KHOSRAVIANI, ARMAN	
SUITE 700 WASHINGTO	N. DC 20036		ART UNIT	PAPER NUMBER
	. ,		2818	
			MAIL DATE	DELIVERY MODE
			09/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary 10/581,210 OTA ET AL. Examiner Art Unit Arman Khosraviani 2818

Application No.

Applicant(s)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

- If NO - Failu Any	SUC(b) MCM/11 From the mailing date of this communication. It is also provided by the communication of the commun
Status	
1)🛛	Responsive to communication(s) filed on 25 April 2008.
2a)□	This action is FINAL . 2b)⊠ This action is non-final.
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposit	ion of Claims
4)⊠	Claim(s) 1.2 and 6-9 is/are pending in the application.
	4a) Of the above claim(s) 3-5 is/are withdrawn from consideration.
5)	Claim(s) is/are allowed.
6)🛛	Claim(s) 1.2 and 6-9 is/are rejected.
7)	Claim(s) is/are objected to.
8)□	Claim(s) are subject to restriction and/or election requirement.
Applicati	ion Papers
9)	The specification is objected to by the Examiner.
10)	The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)	The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority (ınder 35 U.S.C. § 119
12)	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

application from the international buleau (Fi	CT Rule 17.2(a)).	
* See the attached detailed Office action for a list of the	ne certified copies not received.	
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/9566)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application 5) Page 1	

2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage.

Paper No(s)/Mail Date _____

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

application from the International Pursou (PCT Pule 17 2(a))

6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 1, 6, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Deng et al. (US 5,980,977).

Regarding claims 1, 6, and 8 (which recite identical limitations), a water electrolysis system, comprising: an electrode (col. 7, II. 56-67, col. 26, II. 41-54) including a metal oxynitride electrode catalyst comprising an oxynitride containing at least one transition metal element selected from the group consisting of La, Ta, Nb, Ti, and Zr, wherein atomic ratio of (transition metal element):(oxygen):(nitrogen) is (1±0.1):(1±0.1) (column 12, line 48 – column 13, line 3); and an acidic electrolyte contacting said metal oxynitride electrode catalyst; (col. 22, II. 46-56).

The limitation "wherein said metal oxynitride electrode catalyst having a potential of 0.4 V or higher relative to the reversible hydrogen electrode potential in the acidic electrolyte" is merely a functional/intended use limitation that does not structurally distinguish the claimed invention over the prior art. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it

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meets the claim. See In re Casey, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and In re Otto, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963). Moreover, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Therefore, the phrase "used at a potential of 0.4 V or higher relative to the reversible hydrogen electrode potential in the acidic electrolyte" is thus non-limiting.

The statement "A water electrolysis system" is a statement reciting the purpose or intended use of the structural limitations, and therefore do not impart patentable weight to the device above. This rationale is further support by applicant's disclosure, which states the fields of use for the invention (¶ 29). See Ex Parte Masham, USPQ2d 1647, also MPEP 2111.02 (II).

The statement "An organic electrolysis system" is a statement reciting the purpose or intended use of the structural limitations, and therefore do not impart patentable weight to the device above. This rationale is further support by applicant's disclosure, which states the fields of use for the invention (¶ 29). See Ex Parte Masham, USPQ2d 1647, also MPEP 2111.02 (II).

The statement "A fuel cell" is a statement reciting the purpose or intended use of the structural limitations, and therefore do not impart patentable weight to the device above. This rationale is further support by applicant's disclosure, which states the fields of use for the invention (¶ 29). See Ex Parte Masham, USPQ2d 1647, also MPEP 2111.02 (III).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not it definically discholated or described as set for this nection 150 to builded. It is because it is set in the subject and the su

The factual inquiries set forth in <u>Graham v. John Deere Co.</u>, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows: (See MPEP Ch. 2141)

- Determining the scope and contents of the prior art;
- b. Ascertaining the differences between the prior art and the claims in issue;
- c. Resolving the level of ordinary skill in the pertinent art; and
- Evaluating evidence of secondary considerations for indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 2, 7, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deng et al. (US 5,980,977) in view of Clerc et al. (US 6,190,802).

Regarding claims 2, 7, and 9 (which recite identical limitations), Deng fails to teach the metal oxynitride electrode catalyst is dispersed as fine particles on a catalyst carrier which is an electronically conductive powder.

However, Clerc teaches (col. 2, II. 54-67, and col. 3, II. 1-41) the metal oxynitride electrode catalyst (dopants) is dispersed as fine particles on a catalyst carrier which is an electronically conductive powder (col. 3, II. 23-41).

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Since both Clerc and Deng teach the device above, it would have been obvious to have incorporated the above features of Clerc in Deng for the benefit of increasing the electrical conductivity of the device (col. 3, ld.).

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arman Khosraviani whose telephone number is (571)272-6402. The examiner can normally be reached on Monday to Friday, 7:30a -5:00p (Eastern Time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Loke can be reached on 571-272-1657. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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ΑK

/Steven Loke/

Supervisory Patent Examiner, Art Unit 2818